Verbatim
Technology you can trust

Verbatim LED Lights

Innovating the future of light

www.VerbatimLED.eu

The future of light

The lighting market is changing. LEDs and OLEDs are now positioned to replace classic lighting technologies in residential and professional spaces. They will bring huge energy efficiencies and offer innovative solutions to support every conceivable application.

Verbatim is at the forefront of this change, introducing a selection of LED and OLED lights that incorporate the know-how of its parent company, Mitsubishi Chemical Corporation – one of the largest chemical companies in the world with more than 60 years experience in developing lighting materials. As Verbatim leads the way to the future of light, it will stamp its trusted technology brand on the industry, guaranteeing highest levels of product quality and customer service.

The technology behind each Verbatim LED lamp is focused on efficiency, comfort and respect for the environment. LED's by their nature are more efficient in converting electricity into light. They also have a very long lifetime; less waste is produced, reducing the impact on the environment. The combination of the comforting light that LED lamps produce and the peace of mind which comes with caring about the environment in which we live contribute to the Verbatim lighting experience.

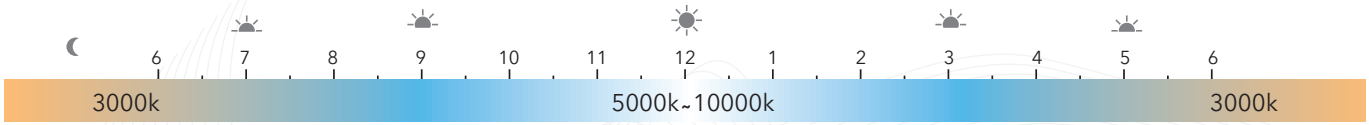
All Verbatim LED lamps produce a comforting warm light. They have modern, yet timeless designs and provide a direct replacement of classic incandescent or halogen lamps incorporating popular bases including E27, E14, GU5.3 and GU10. They are all energy saving, long life, shock and vibration proof and emit no ultraviolet or infrared radiation. They are also all equipped with TCS (Temperature Control System) to avoid overheating and to ensure a full product lifetime.

Come with us on our journey into light's future.

Verbatim – Technology you can trust.

KAITEKI

Traditionally meaning, "comfort" or "ease" in Japanese, "KAITEKI" is our motto to represent global quality of life that will be made possible through sustainable technologies.

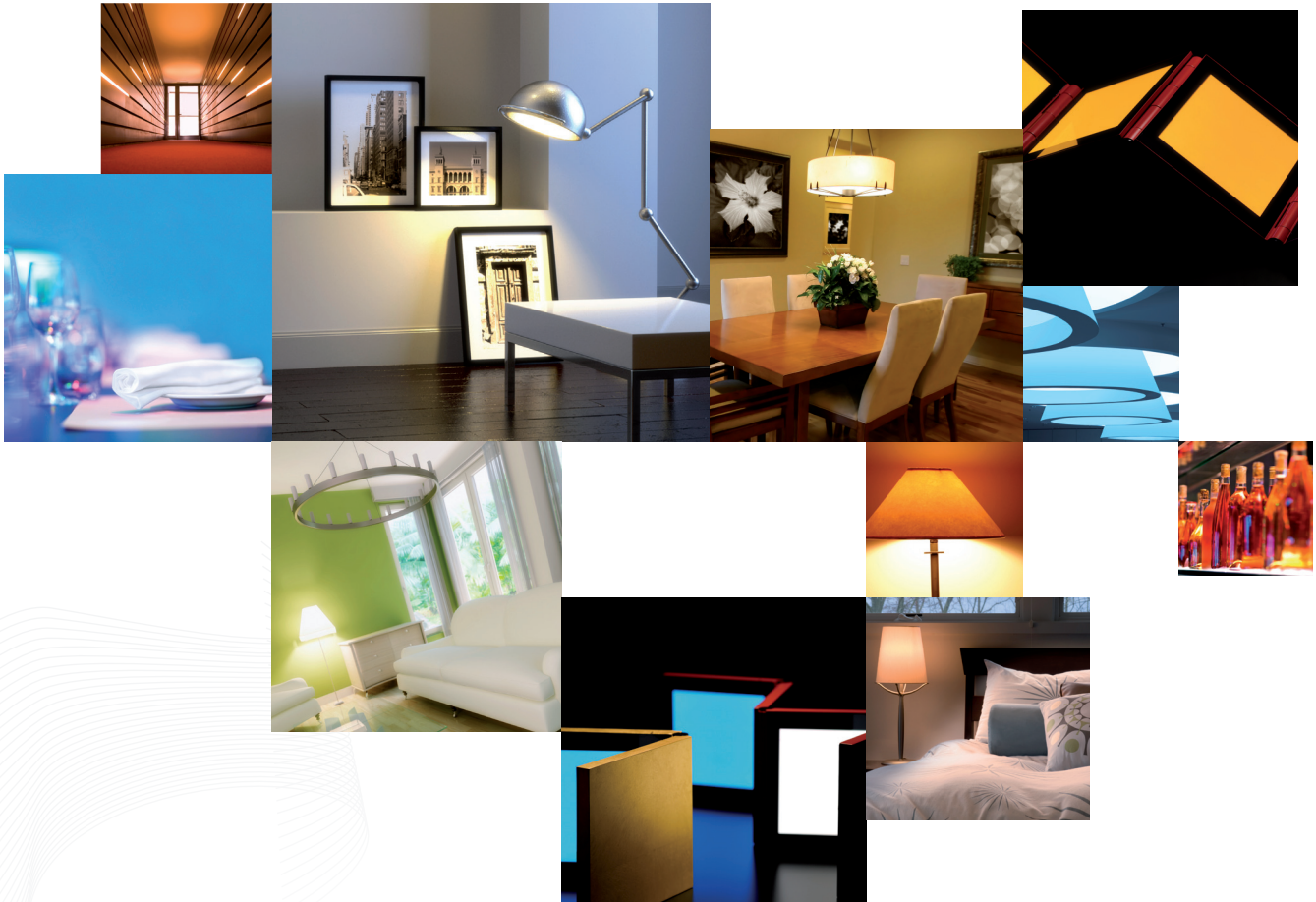


Daily variations in colour temperature of light

Comfort lighting

Verbatim's LED and OLED lighting will enable a wide range of moods and atmospheres to be created. Shops, for example, will be able to change the mood of their interior to reflect the collection, the time of day, or even the weather. If it's cold and rainy outside, the lighting can be warm and inviting. If it's a hot summer's day, the interior can look cool and pleasant. Equally, the home must accommodate a broad range of activities, and thanks to LED solutions, each activity can have its own lighting atmosphere: bright clear light for cleaning or when the children are playing, subdued lighting for watching TV, romantic lighting for an intimate dinner, gentle lighting for an evening with friends – all available through Verbatim's lighting systems.

Verbatim. A better quality of light.



Verbatim LED Classic A

Verbatim LED Classic A offers a direct replacement for conventional incandescent lamp. This dimmable and elegantly designed lamp has a built-in control system that protects the lamp electronics from overheating.

Classic A 6.5 W

- Familiar "classic" design
- Replaces a standard 25 W incandescent lamp
- Dimmable
- Up to 75 % energy saving
- Lifetime of 35,000 hrs / 16 years*
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Application

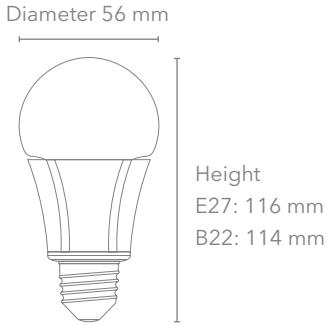
- Basic lighting for a comfortable atmosphere at home as well as in hotel rooms, restaurants etc.

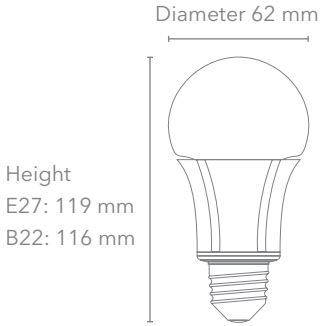
Product Part Number:	52000	52007
Socket:	E27	B22
Voltage:	220 – 240 V	220 – 240 V
Wattage:	6.5 W	6.5 W
Lifetime:	35,000 hrs	35,000 hrs
Light colour:	WW 2700 K	WW 2700 K
Luminous flux:	250 lm	250 lm
CRI:	≥ 80	≥ 80

WW = Warm White CW = Cold White

CE N446

E27 B22





Verbatim LED Classic A Superior

This LED Classic A Superior is the ideal replacement for standard 40 W incandescent lamps. It offers a high light output of 480 lm. This dimmable and elegantly designed lamp has a built-in control system that protects the lamp electronics from overheating.

Classic A Superior 10 W

- Familiar "classic" design
- Replaces a standard 40 W incandescent lamp
- Dimmable
- Up to 75 % energy saving
- Lifetime of 35,000 hrs / 16 years*
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Application

- Basic lighting for a comfortable atmosphere at home as well as in hotel rooms, restaurants etc.

Product Part Number:	52001	52008
Socket:	E27	B22
Voltage:	220 – 240 V	220 – 240 V
Wattage:	10 W	10 W
Lifetime:	35,000 hrs	35,000 hrs
Light colour:	WW 3000 K	WW 3000 K
Luminous flux:	480 lm	480 lm
CRI:	75 – 85	75 – 85

WW = Warm White CW = Cold White

CE N446

Verbatim LED Candlelight Type B

This candle lamp matches the ambiance of incandescent light with guaranteed high energy savings.

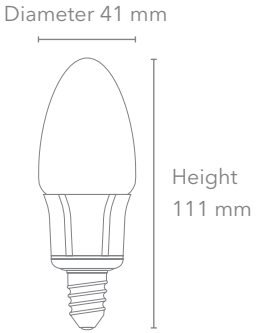
Candle Lamp 4 W
- Familiar "classic" design
- Replacement for standard 15 W candle lamps
- Up to 75 % energy saving
- Lifetime of 25,000 hrs / 11 years*
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Application
- An ideal direct replacement for decorative applications

Product Part Number:	**52002**
Socket:	E14
Voltage:	220 – 240 V
Wattage:	4 W
Lifetime:	25,000 hrs
Light colour:	Warm white 2850 K
Luminous flux:	90 lm
CRI:	≥ 75

CE N446



Verbatim LED R63

Verbatim LED R63 provides an efficient decorative spotlighting. Available in warm white and cold white with beam angles of 30° and 35° respectively.

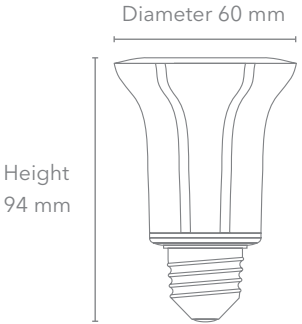
Spot R63 8 W

- Familiar design of 63 mm diameter spot lamp
- Replacement for 40 W R63 incandescent spot lamps
- Dimmable
- Up to 80 % energy saving
- Lifetime of 35,000 hrs / 16 years*
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Application

- For spotlighting of various objects in shops, restaurants etc.
- Mirror lighting at home or in hotels



Product Part Number:	52003	52009
Socket:	R63	R63
Voltage:	220 – 240 V	220 – 240 V
Wattage:	8 W	8 W
Lifetime:	35,000 hrs	35,000 hrs
Light colour:	WW 2700 K	CW 4250 K
Luminous flux:	320 lm	370 lm
Luminous intensity:	816 cd	880 cd
Beam Angle:	30°	35°
CRI:	≥ 80	≥ 85

WW = Warm White CW = Cold White

Verbatim LED PAR16 GU10

This elegantly designed spot provides an economical spotlighting solution and is an ideal replacement for 35 W halogen lamps.

Spot PAR16 8 W

- Familiar design of PAR16 halogen spotlight
- Replacement for high voltage 35 W halogen lamps
- Dimmable
- 80 % energy saving
- Lifetime of 35,000 hrs / 16 years*
- Built-in TCS (Temperature Control System)

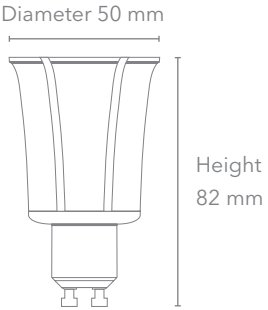
* calculation based on lamp being used on average 6 hrs per day

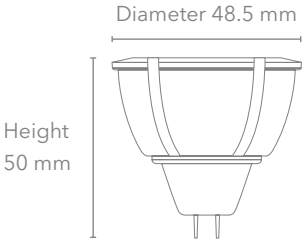
Application

- For accent spotlighting and downlights
- For spotlighting of various objects in shops, restaurants etc.

Product Part Number:	52006	52011
Socket:	GU10	GU10
Voltage:	220 – 240 V	220 – 240 V
Wattage:	8 W	8 W
Lifetime:	35,000 hrs	35,000 hrs
Light colour:	WW 2700 K	CW 4200 K
Luminous flux:	310 lm	370 lm
Luminous intensity:	595.8 cd	800 cd
Beam Angle:	35.5°	35.5°
CRI:	> 80	> 80

WW = Warm White CW = Cold White





Verbatim LED MR16 GU5.3

Verbatim LED MR16 GU5.3 offers an ideal replacement for low voltage lamps.

Low Voltage Spot MR16 6.5 W

- Familiar design of low voltage MR16 halogen spotlight
- Replacement for low voltage 20 W halogen lamps
- Dimmable
- Up to 70 % energy saving
- Lifetime of 35,000 hrs / 16 years*
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Please note, the MR16 GU5.3 6.5 W lamp can only be used with a 10-60 W electronic transformer or 12 V DC LED driver. Dimmability depends on transformer/dimmer combination. Electronic transformers have a minimum load requirement.

Application

- For accent spotlighting and downlights
- In shop windows and display cabinets

Product Part Number:	52005	52010
Socket:	GU5.3	GU5.3
Voltage:	12 V	12 V
Wattage:	6.5 W	6.5 W
Lifetime:	35,000 hrs	35,000 hrs
Light colour:	WW 2700 K	CW 4200 K
Luminous flux:	275 lm	275 lm
Luminous intensity:	1100 cd	1100 cd
Beam Angle:	30°	30°
CRI:	≥ 80	75

WW = Warm White CW = Cold White

CE N446

Verbatim LED PAR16 GU10

This attractive high voltage spot PAR16 4 W/5.5 W is an ideal replacement for standard high voltage halogen lamps. It has high energy efficiency and a built-in temperature management control system that guarantees long lifetime.

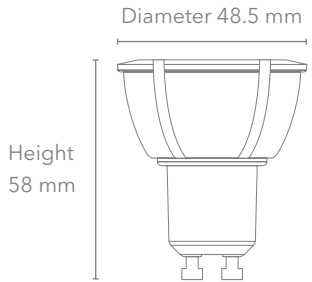
High Voltage Spot PAR16 4 W/5.5 W

- Familiar design of high voltage PAR16 halogen spotlight
- Replacement for standard halogen lamps
- Built-in TCS (Temperature Control System)

* calculation based on lamp being used on average 6 hrs per day

Product Part Number:	52012	52013
Socket:	GU10	GU10
Voltage:	220 – 240 V	220 – 240 V
Wattage:	4 W	4 W
Lifetime:	25,000 hrs	25,000 hrs
Light colour:	WW 2850 K	CW 5300 K
Luminous flux:	100 lm	in preparation
Luminous intensity:	380 cd	in preparation
Beam Angle:	28°	in preparation
CRI:	75	in preparation

WW = Warm White CW = Cold White



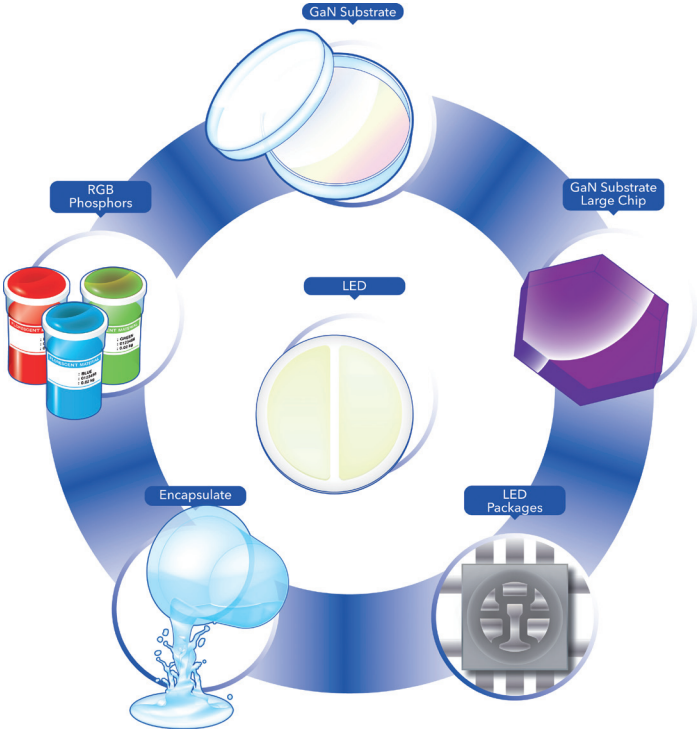
Application

- For accent spotlighting
- In shop windows and display cabinets
- For spotlighting of various objects in shops, museums, restaurants etc.

Product Part Number:	52014	52015
Socket:	GU10	GU10
Voltage:	220 – 240 V	220 – 240 V
Wattage:	5.5 W	5.5 W
Lifetime:	25,000 hrs	25,000 hrs
Light colour:	WW 2700 K	CW 4200 K
Luminous flux:	230 lm	230 lm
Luminous intensity:	430 cd	430 cd
Beam Angle:	30°	30°
CRI:	75	80

WW = Warm White CW = Cold White

The revolution of light: Violet Chip Technology



In 2011, Verbatim is planning to introduce LED lighting solutions that use violet excited emitting chip technology developed by Verbatim's parent company, Mitsubishi Chemical. The chips combine violet light with high-quality red, green and blue phosphors to produce LED light of the highest quality.

Verbatim products incorporating these chips will offer a typical colour rendering index (CRI) of >90 which is very close to natural light and are ideal for applications where perception of the true colour of the subject matter is imperative.

MITSUBISHI CHEMICAL CORPORATION

Verbatim

Ecological & economic advantages of Verbatim LED Lamps

Comparison based on 35,000 hours lamp use	Incandescent Lamp Classic A 40 W	Verbatim LED 10 W CLASSIC A Superior
Average life of bulb	1,000 hrs	35,000 hrs
Power consumption	1,400 kWh	350 kWh
Cost of power consumption (0.17 €/kWh)[1]	238.00 €	59.50 €
Purchase cost[2]	70.00 € (2 €/piece)	30.00 €
Maintenance cost (2€/piece)	70.00 €	2.00 €
CO_2 emissions[3]	700 kg	175 kg
Total cost (based on 35000 hours lamp use)[4]	**378.00 €**	**91.50 €**

[1] European average electricity cost 0.17 € / kWh [2] Purchase price based on current retail price and may vary according to country and market development
[3] CO_2 emissions (kg) @ 0.5 kg CO_2 / kWh [4] Calculation based on today's values

Environmental Benefits:

- Savings on 1 Verbatim LED 286.50 €
- CO_2 emissions decreased by 525 kg CO_2
- 1 Verbatim LED lamp lasts up to 35 times longer than conventional bulbs
- The investment on 1 Verbatim LED pays back on the 4th incandescent bulb

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